

## SEQUENCE LISTING

&lt;110&gt; Kroczek, Richard

&lt;120&gt; Anti-human T-cell costimulating monoclonal antibodies

&lt;130&gt; 7853-215-999

&lt;140&gt; 09/509,283

&lt;141&gt; 2000-08-11

&lt;160&gt; 5

&lt;170&gt; PatentIn version 3.0

&lt;210&gt; 1

&lt;211&gt; 2641

&lt;212&gt; DNA

&lt;213&gt; 8F4

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; 68..667

&lt;400&gt; 1

cgagagcctg aattcactgt cagcttcaa cactgaacgc gaggactgtt aactgtttct	60
ggcaaac atg aag tca ggc ctc tgg tat ttc ttt ctc ttc tgc ttg cgc	109
Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg	
1 5 10	
att aaa gtt tta aca gga gaa atc aat ggt tct gcc aat tat gag atg	157
Ile Lys Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met	
15 20 25 30	
ttt ata ttt cac aac gga ggt gta caa att tta tgc aaa tat cct gac	205
Phe Ile Phe His Asn Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp	
35 40 45	
att gtc cag caa ttt aaa atg cag ttg ctg aaa ggg ggg caa ata ctc	253
Ile Val Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu	
50 55 60	
tgc gat ctc act aag aca aaa gga agt gga aac aca gtg tcc att aag	301
Cys Asp Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys	
65 70 75	
agt ctg aaa ttc tgc cat tct cag tta tcc aac aac agt gtc tct ttt	349
Ser Leu Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe	
80 85 90	
tta cta tac aac ttg gac cat tct cat gcc aac tat tac ttc tgc aac	397
Phe Leu Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn	
95 100 105 110	
cta tca att ttt gat cct cct ttt aaa gta act ctt aca gga gga	445
Leu Ser Ile Phe Asp Pro Pro Phe Lys Val Thr Leu Thr Gly Gly	
115 120 125	
tat ttg cat att tat gaa tca caa ctt tgt tgc cag ctg aag ttc tgg	493
Tyr Leu His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp	
130 135 140	
tta ccc ata gga tgt gca gcc ttt gtt gta gtc att ttg gga tgc	541
Leu Pro Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys	
145 150 155	
ata ctt att tgt tgg ctt aca aaa aag aag tat tca tcc agt gtg cac	589
Ile Leu Ile Cys Trp Leu Thr Lys Lys Tyr Ser Ser Ser Val His	
160 165 170	
gac cct aac ggt gaa tac atg ttc atg aga gca gtg aac aca gcc aaa	637
Asp Pro Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys	
175 180 185 190	

aaa tct aga ctc aca gat gtg acc cta taa tatggaactc tggcacccag	687
Lys Ser Arg Leu Thr Asp Val Thr Leu	
195	
gcatgaagca cggtggccag tttcctcaa cttgaagtgc aagattctct tatttccggg	747
accacggaga gtctgactta actacatatac tcttctgctg gtgtttgtt caatctggaa	807
gaatgactgt atcagtcaat ggggattttt acagactgcc ttggtaactgc cgagtccctct	867
caaaaacaac accctctgc aaccagctt ggagaaagcc cagctccgt gtgctcactg	927
ggagtgaaat ccctgtctcc acatctgctc ctagcagtgc atcagccagt aaaacaaaca	987
catttacaag aaaaatgttt taaagatgcc agggtaactg aatctgaaa gcaaattgagc	1047
agccaaaggac cagcatctgt ccgcatttca ctatcatact acctcttctt tctgttaggga	1107
tgagaattcc tctttaatc agtcaaggaa gatgctcaa agctggagct attttatttc	1167
tgagatgtg atgtgaactg tacatttaga cataactcgt actctccctt aattgctgaa	1227
ccccagttga ccattttacc aagactttag atgcttctt gtgcctcaa ttttctttt	1287
aaaaataactt ctacatgact gcttgacagc ccaacagcc cttcaatag agagctatgt	1347
cttacattt ttcctctgt gctcaatagt ttatataatc tatgcataca tatatacaca	1407
catatgtat taaaattcat aatgaaata tttgcctata ttctccctac aagaatattt	1467
ttgctccaga aagacatgtt ctttctcaa attcagttaa aatggttac tttgttcaag	1527
tttagttagt gaaacattgc ccggaaatgt aagcaaattt attttattat cctatttct	1587
accattatc atgtttcat ggtgttattt attacaagtt tagttcttt ttagatcat	1647
attaaaattt caaacaaaat catcttaat gggccagcat tctcatgggg tagagcagaa	1707
tattcattt gcctgaaagc tgcagttact ataggttgcgt gtcagactat acccatggtg	1767
cctctgggt tgacaggtca aaatggtccc catcagcctg gaggccct ccagacctgg	1827
gtgaaattcc agggttgaga gactccctg agccagaggc cactaggtat tttgtctccc	1887
agaggctgaa gtcacccctgg gaatcacagt ggtctacctg cattcataat tccaggatct	1947
gtgaagagaca catatgtgtc agggcacaat tccctctcat aaaaaccaca cagcctggaa	2007
attggccctg gcccttcaag atagccttct ttagaatatg atttggctag aagattctt	2067
aaatatgtgg aatatgatta ttcttagtgc gaatatttc tctacttcct gtctgcatgc	2127
ccaaggcttc tgaagcagcc aatgtcgatg caacaacatt tgtaacttta ggtaaactgg	2187
gattatgtt tagttaaca tttttaact gtgtgcttat agtttacaag tgagacccga	2247
tatgtcatca tgcatactta tattatctta agcatgtta atgctggatg tgtagactac	2307
agtaactgaac ttgttaattt aatcttagat ggtgttctgt tttcagctga cttggacaac	2367
ctgactggct ttgcacaggt ttccctgag ttgttgcag gtttctgtgt gtgggggtggg	2427
gtatggggag gagaaccttc atgggtggccc acctggccctg gttgtccaaag ctgtgcctcg	2487
acacatccctc atccccagca tgggacacat caagatgaat aataattcac aaaatttctg	2547
tgaaatcaaa tccagttta agaggagccca ctttcaaaag agattttaac agtagtaaga	2607
aggcaaaagaa taaacatttta atattcagca actg	2641

<210> 2  
 <211> 199  
 <212> PRT  
 <213> 8F4

<400> 2			
Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys			
1	5	10	15
Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile			
20	25	30	
Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val			
35	40	45	
Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp			
50	55	60	
Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu			
65	70	75	80
Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu			
85	90	95	

Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser  
100 105 110

Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu  
115 120 125

His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro  
130 135 140

Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu  
145 150 155 160

Ile Cys Trp Leu Thr Lys Lys Tyr Ser Ser Ser Val His Asp Pro  
165 170 175

Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser  
180 185 190

Arg Leu Thr Asp Val Thr Leu  
195

<210> 3

<211> 17

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Degenerate oligonucleotide

<221> misc\_feature

<222> 3, 9, 15

<223> n = a, t, g, or c

<400> 3

mgnctsacng aygtnac

17

<210> 4

<211> 17

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Degenerate oligonucleotide

<221> misc\_feature

<222> 3, 9, 15

<223> n = a, t, g, or c

<400> 4

mgnytdacng aygtnac

17

<210> 5

<211> 7

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> 1

<223> Xaa = Unknown amino acid

<400> 5

Xaa Arg Leu Thr Asp Val Thr  
1 5